



## ENERBOND™ FOAM ADHESIVE



### 1. PRODUCT NAME

ENERBOND™ Foam Adhesive

### 2. MANUFACTURER

The Dow Chemical Company  
 Dow Building Solutions  
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 Midland, MI 48674  
 1-866-583-BLUE (2583)  
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 1-866-583-BLUE (2583) (English)  
 1-800-363-6210 (French)  
[www.dowbuildingsolutions.com](http://www.dowbuildingsolutions.com)

### 3. PRODUCT DESCRIPTION

ENERBOND™ Foam Adhesive is a heavy-duty adhesive specially formulated to bond subfloors, drywall, paneling, foam panels and most construction materials. Better than traditional adhesives because of its excellent bonding power on dry, damp and even frozen lumber, ENERBOND™ Foam Adhesive provides a fast-grab tack and high-strength bond. It bonds to lumber, plywood, particle board, masonry, drywall, concrete and foam panels. It is ideal for anchoring, joining and stabilizing insulated concrete forms and structural insulated panels. (ENERFOAM™ Foam Sealant can also be used to seal gaps in the forms and prevent leakage of the fresh concrete during the pouring stage.) ENERBOND™ Foam Adhesive is cream in color and is easy to apply in various weather conditions.

#### BASIC USE

ENERBOND™ Foam Adhesive is a single-component, moisture-cured polyurethane foam adhesive for interior and exterior use. It is designed to:

- Secure subflooring
- Attach drywall
- Fasten paneling
- Secure exterior sheathing
- Minimize use of mechanical fasteners

### 4. TECHNICAL DATA

#### APPLICABLE STANDARDS

ENERBOND™ Foam Adhesive complies with the following standards:

- ASTM D3498 – Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems
- HUD UM 60a – Performance specification for all flooring adhesive products used in HUD manufactured housing
- ASTM D6464 – Standard for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing
- California Specifications CA 25-4 – Standard for the Evaluation of Adhesives for Structural Use in Multi-unit Manufactured Housing and Commercial Coach Construction

Contact your Dow sales representative or local authorities for state and local building code requirements and related acceptances.

ENERBOND™ Foam Adhesive exhibits the typical physical properties shown in Table 2.

### 5. INSTALLATION

ENERBOND™ Foam Adhesive is easy to apply using a PRO Series foam dispensing gun. To ensure best adhesion performance, ENERBOND™ Foam Adhesive should be applied to substrates that are structurally sound and free of standing water, snow, ice, dirt, mud, oil or other loose materials and release agents that may impair adhesion. Painted surfaces and protective coatings should be removed, sanded or thoroughly roughened. Concrete and masonry substrates should be cured before bonding. Materials should be cut and fit-checked before applying adhesive.

Shake container vigorously for one minute before dispensing and between uses. To attach a PRO Series foam dispensing gun, invert can and screw gun onto adapter, then adjust flow control knob to adjust bead size (3/8"-1/2" [10-13 mm] recommended).

Adhesive can be applied in a continuous zigzag bead or in parallel beads, ensuring that the adhesive layer will completely cover joists and framing where wood panels and drywall edges abut.

TABLE 1: FEATURES AND BENEFITS OF ENERBOND™ FOAM ADHESIVE

Feature	Benefit
Excellent adhesion	<ul style="list-style-type: none"> <li>• Reduces nail pops in drywall/subfloor</li> <li>• Reduces floor and stair squeaks</li> <li>• Fewer callbacks and repairs</li> <li>• Reduces fastener use</li> </ul>
Gun-applied	<ul style="list-style-type: none"> <li>• Easy to use</li> </ul>
Significantly higher yield than traditional caulk adhesive	<ul style="list-style-type: none"> <li>• Cost-effective</li> </ul>
Bonds dry, treated, damp and frozen surfaces	<ul style="list-style-type: none"> <li>• Can be used under almost all weather conditions</li> <li>• Enhanced productivity</li> </ul>

TABLE 2: TYPICAL PROPERTIES OF ENERBOND™ FOAM ADHESIVE

Property	Value
Tack-free, min. (75°F [24°C], 50% RH)	14
Initial Bond, hours	2
Full Cure, days	7
Color	Cream
Shelf Life, months	12
Application Temperature, °F (°C)	32 to 100 (0 to 38)

Construction material can then be positioned over the substrate, and firm pressure applied. Substrates should be butted together within 10 minutes of dispensing adhesive. If bead has skinned over, it must be scraped off and reapplied. Supplemental mechanical fasteners should be installed after applying adhesive for best bond. Initial bond typically occurs within two hours, with full cure in seven days depending on conditions. Cure times will be shorter at higher temperature and humidity, and longer at lower temperature and humidity.

Excess adhesive can be cleaned from the substrate while still uncured using a dry cloth, putty knife or paint scraper. Cured adhesive must be mechanically removed.

ENERBOND™ Foam Adhesive should not be used in continuous underwater applications or on substrates with surface or standing water present.

For more information, consult the installation instructions (Form No. 179-07439/178-00378) or contact your Dow sales representative.

**SAFETY AND CONDITIONS OF USE**

- Read the label and Material Safety Data Sheet carefully before use.
- ENERBOND™ Foam Adhesive contains isocyanate and a flammable blowing agent. Vapors may travel to other rooms. Ensure adequate ventilation and shut off all pilot lights and open flames; eliminate all sources of ignition before use. Do not smoke or use lighters or matches while dispensing foam.
- Do not breathe vapors or mists. Use in well-ventilated areas

or wear proper respiratory protection. Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.

- ENERBOND™ Foam Adhesive is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.
- The contents are under pressure. The can may burst if left in areas susceptible to high temperatures, such as motor vehicles, or near radiators, stoves or other sources of heat. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F.

**6. AVAILABILITY**

ENERBOND™ Foam Adhesive is distributed through an extensive network. For more information, call 1-800-232-2436.

**7. WARRANTY**

Not applicable.

**8. MAINTENANCE**

ENERBOND™ Foam Adhesive has a shelf life of 12 months when stored at 75°F. Contents of the can are under pressure. Can may burst if left in areas susceptible to high temperatures, such as motor vehicles, or near radiators, stoves or other sources of heat. Do not place can in hot water. Do not puncture, incinerate or store at temperatures above 120°F.

**9. TECHNICAL SERVICES**

Dow can provide technical information to help address questions when using ENERBOND™ Foam Adhesive. For technical assistance, call 1-866-583-BLUE (2583).

**10. FILING SYSTEMS**

- www.dowbuildingsolutions.com
- www.sweets.com

**SIZES**

ENERBOND™ Foam Adhesive is available in 26.5 oz (751 g) containers. One container can replace up to 16 quart tubes of traditional caulk adhesive when applied at 1/4" beads. ENERBOND™ Foam Adhesive is available in cartons of 12 (26.5 oz / 751 g) aerosol cans. Consult your Dow representative for more details.

**STORAGE AND SHELF LIFE**

ENERBOND™ Foam Adhesive should be stored between 65°F and 85°F (18°C and 29°C) for fast and easy application performance. ENERBOND™ Foam Adhesive has a shelf life of 12 months when stored in the original closed container. Open containers should be stored upright attached to dispensing gun when not in use. See package labeling for more information.

**www.dowbuildingsolutions.com**

**Technical Information**  
1-866-583-BLUE (2583) (English)  
1-800-363-6210 (French)

**Sales Information**  
1-800-232-2436 (English)  
1-800-565-1255 (French)

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Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

